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From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
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To: Info-Hams

Info-Hams Digest Mon, 13 Sep 93 Volume 93 : Issue 1087

Today's Topics:

 ALERT: MINOR TO SEVERE GEOMAGNETIC STORM ALERT
 AURORA WATCH: Low Latitude Auroral Activity Watch

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Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 13 Sep 93 10:08:20 GMT
From: news-mail-gateway@ucsd.edu
Subject: ALERT: MINOR TO SEVERE GEOMAGNETIC STORM ALERT
To: info-hams@ucsd.edu

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MINOR GEOMAGNETIC STORM ALERT

ISSUED: 09:00 UT, 13 SEPTEMBER

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ATTENTION:

Levels of geomagnetic activity have significantly intensified over the
last six hours. Activity surpassed the minor storm threshold at 09:00
UTC and is expected to pass the major storm threshold over the next 3 to
6 hours. Severe geomagnetic storming with rapid and occasionally deep
field fluctuations have been observed over all regions. Similar intense

fluctuations are expected to continue through the next 12 to 24 hours before declining to predominantly minor storm levels later on 14 September. Active to minor storm levels are expected on 15 September, but may be augmented with quiet intervals if recurrence is accurate.

A major ionospheric disturbance is in progress at the present time. Levels of geomagnetic and auroral activity have produced near useless propagation for transpolar and transauroral paths. Effects have been amplified due to the large equatorward expansion of the auroral ovals which has taken place - bringing the equatorward edge of the auroral ovals into the middle latitude regions of southern Canada and extreme northern portions of the United States.

A major auroral storm has developed. A Low Latitude Auroral Activity WATCH has also been issued at 09:00 UTC and will remain active until 19:00 UTC on 14 September when it will either be updated or allowed to expire. Auroral activity has, at the time of this writing, become occasionally intense enough to be observed over the low latitude regions. Area's of southern Australia, New Zealand, and Europe may be able to spot activity.

** End of Alert **

Date: 13 Sep 93 10:14:49 GMT
From: news-mail-gateway@ucsd.edu
Subject: AURORA WATCH: Low Latitude Auroral Activity Watch
To: info-hams@ucsd.edu

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LOW LATITUDE AURORAL ACTIVITY WATCH

ISSUED: 09:00 UT, 13 SEPTEMBER

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MODERATE RISK PERIOD: 13 Sep - 14 Sep (UT days)
EMPHASIZED PERIOD: 13 Sep

POTENTIAL MAGNITUDE OF LOW LATITUDE AURORAL ACTIVITY: LOW - MODERATE

POTENTIAL LUNAR INTERFERENCE: LOW

PREDICTED ACTIVITY INDICES FOR NEXT 3 DAYS: 70, 40, 18 (13 - 15 SEP)

(INPUT INTO THE AURORA SIMULATION SOFTWARE *)

OVERALL OPPORTUNITY FOR OBSERVATIONS FROM LOW LATITUDES: FAIR

AURORAL ACTIVITY MAY BE OBSERVED APPROXIMATELY NORTH OF A LINE FROM...

SOUTHERN OREGON TO NORTHERN UTAH TO SOUTHERN WYOMING TO NEBRASKA AND
POSSIBLY PARTS OF NORTHERN KANSAS TO IOWA TO CENTRAL ILLINOIS TO
INDIANA TO OHIO TO PENNSYLVANIA TO CONNECTICUT.

AREAS NORTH OF A LINE APPROXIMATELY FROM NORTHERN FRANCE TO NORTHERN
GERMANY TO NORTHERN POLAND TO NORTHERN RUSSIA MAY ALSO SPOT ACTIVITY.

AREAS OF SOUTHERN AUSTRALIA AND SOUTHERN NEW ZEALAND SHOULD ALSO BE
ABLE TO SPOT PERIODS OF ACTIVITY.

* Contact: Oler@Rho.Uleth.CA or COler@Solar.Stanford.Edu for more information
regarding the Auroral Activity Prediction and Simulation Software.

SYNOPSIS...

A large, well placed and recurrent coronal hole disturbance began
elevating levels of auroral activity late in the UTC day of 12
September. Activity quickly intensified to storm levels. Periods of
intense auroral storming has been observed over the high and middle
latitude regions. Evidence of moderate activity has also been reported
from some low latitude sites near or slightly below 40 degrees north
latitude over North America. We are expecting periods of strong to
intense auroral activity to continue over the next 12 to 24 hours before
beginning to diminish. During this interval, low latitude regions may
be able to spot periods of activity under dark skies. Lunar phase will
not be a strong interference factor.

For those with the Auroral Activity Simulation Software, use input
values of approximately 70 for the next 24 hours, diminishing to values
near 40 for 14 September.

This warning will remain active until 19:00 UT on 14 September when it
will either be updated or allowed to expire.

** End of Watch **

End of Info-Hams Digest V93 #1087
